different as dz = pax + va; dz = a dx + 7/4 dj Z = ax+ 72 + C// compute Solution. う 2a2-2a2x+ ナ+ C1// 2. Soive: P+7=7 - 0

Now

is

$$dz = aan + (J-a)^2 + c$$

$$z = an + (J-a)^2 + c$$

Complete Solution.

Case Civi) 
$$f(z,b,v)=0$$
,  $v=ab$ 

$$dz = pdx + 9dd$$

$$dz = (az)dx + a(az)dd$$

$$\frac{dz}{az} = dx + add$$

$$\frac{dz}{az} = x + add$$

$$\frac{d}{az} = x + add$$

logz = axt a2j+ c1

Now

$$p \leftarrow 2$$

$$p \leftarrow 2$$

$$p \leftarrow 2$$

$$p \leftarrow 2$$

$$(1+a)$$

$$dz = \frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}$$

$$dz = \frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} = \frac{\partial u}{\partial x}$$

$$(1+a)$$

$$b^{2} = ab^{2}$$

$$b^{2} = ab^{2}$$

$$b^{3} = ab^{2}$$

$$b^{4} = ab^{2}$$

ass-me that FCx, b)= F(J, a) = K, Say

solving for b, we get b= \$CX)

solving for 9, we get 7=4(7)

dz= bast yog

dz = \$(x)d7+4(8)45

$$\frac{1}{1} \qquad \qquad p^2 - \chi = \chi$$

$$8 \cdot p^2 + \gamma^2 = \chi^2 + \gamma^2 - 0$$

Now, 
$$b^2 - x^2 = K$$

$$b^2 = x^2 + K$$

$$b^2 = \pm x^2 + K$$

$$\nabla^2 = \mathcal{I}^2 - \mathcal{K}$$

$$\nabla = \mathcal{I} \sqrt{\mathcal{I}^2 - \mathcal{K}}$$

$$\Delta z = \pm \sqrt{x^2 + k} \, dx \pm \sqrt{y^2 - k} \, dy$$

$$z = \pm \sqrt{x^2 + (k)^2} \, dx \pm \sqrt{y^2 - (k)^2} \, dy$$

$$\int \sqrt{\chi^2 + 4^2} \, dx = \frac{4^2}{2} \sin \frac{1}{2} (\frac{1}{2} \sqrt{\frac{1}{2}}) + \frac{1}{2} \sqrt{\chi^2 + 4^2} + C$$

$$Z = \pm \left( \frac{K}{2} \sinh^{-1} \left( \frac{Y}{\sqrt{K}} \right) + \frac{X}{2} \sqrt{X^{2} + K} \right) + \left( \frac{1}{2} \sqrt{Y^{2} - K} - \frac{K}{2} \cosh^{-1} \left( \frac{y}{\sqrt{K}} \right) + C \right)$$

az = (K-2) ax + 8/K 4 1

$$Z = KX - X^{2} + Y^{2} + C = Coy$$

$$Z = KX - X^{2} + X + C = Coy$$